



**Date:** April 24, 2015

**To:** Akoni Danielson & Matthew Gilliland, David J. Powers & Associates, Inc.

From: Robert Del Rio

Subject: Traffic Study Consistency Review for the Current Valley Fair Mall Expansion

This memo presents an evaluation of consistency for a proposed change in project description with the traffic study and approved Environmental Impact Report (EIR) completed in 2006 for the Valley Fair Mall Expansion in San Jose, California. A traffic study report dated November 27, 2006 was completed and included within the approved EIR for the proposed expansion. The approved project consisted of the expansion of the existing mall to accommodate two new anchor stores and additional retail space and expansion and/or relocation of out parcel buildings. In total the project was to result in the addition of 552,615 square feet (s.f.) of gross leasable retail space. The proposed expansion now consists of the addition of 487,300 sf of gross leasable retail space and a 10-screen movie theater.

The evaluation includes a comparison of trip generation for the current project description against that of the previously approved uses for the expansion project. In addition, changes to the surrounding roadway network and traffic conditions were reviewed to ensure that the original analysis is still valid and that the conclusions and recommendations of the report will be unaffected by the proposed change in project description and current traffic volume data.

## **Trip Generation Estimate Comparison**

The estimated trip generation for the approved mall expansion and new proposed mall expansion plan were reviewed to determine if the new mall expansion plan is consistent with those land uses identified in the approved EIR. The review consisted of a comparison of trip generation estimates for the proposed uses against those identified in the approved EIR. The comparison indicates that the new proposed mall expansion plan will generate fewer peak hour trips than those uses identified in the approved EIR (Table 1).

## **Intersection Level of Service Analysis**

The evaluation includes a re-evaluation of intersection level of service utilizing current volume data at each of the study intersections included as part of the original traffic study. The purpose of the re-evaluation is to determine whether the traffic count data utilized within the completed EIR traffic report are consistent with today's data and whether the conclusions and recommendations of the EIR are still valid.

The level of service analysis was updated utilizing available information contained in the the latest City of San Jose TRAFFIX database and traffic counts collected for other traffic studies recently completed in the area in 2013. The updated level of service analysis results indicate that the addition of project traffic associated with both the approved and the new mall expansion plans would result in a significant impact at the following two intersections (see Table 2):

Stevens Creek Boulevard and Winchester Boulevard Stevens Creek Boulevard and Monroe Street

The 2006 traffic report concluded that the proposed mall expansion project would impact only the Stevens Creek/Winchester intersection. The intersection of Stevens Creek Boulevard and Winchester Boulevard is a protected intersection and is not subject to the City's level of service policy. However, the addition of a second southbound left-turn lane was included in 2006 as a condition of approval for the project. With the completion of the southbound left-turn lane, the intersection will continue to operate at

















LOS E conditions, however the intersection is allowed to operate below the City's LOS standard based on the Protected Intersection Policy.

The Stevens Creek Boulevard and Monroe Street intersection was not shown to have a significant impact in 2006. Based on the current coding of the intersection lane configuration, traffic counts and approved project traffic, the intersection would be significantly impacted by both the approved and the new mall expansion plans. The coding of the northbound right-turn movement, which is dictated by the City, in the 2006 analysis was less stringent than the coding used at the intersection today. As a result, the intersection is projected to operate at worse conditions under existing and projected no project conditions (background) based on the current intersection coding.

Despite no impact being identified in 2006, the approved mall expansion project was required, as a condition of approval, to construct a new direct connector ramp from southbound I-880 to Monroe Street. The new ramp will divert mall traffic away from the Stevens Creek/Monroe Street intersection and reduce delays at the intersection. The improvement of operating conditions at the intersection cannot be reflected in the intersection level of service calculations because of capacity constraints due to the intersection coding.



Table 1
Trip Generation Estimate Comparison

		Week	Weekday		AM Peak Hour						PM Peak Hour							Saturday Peak Hour					
						_		Trips						Trips							Trips		•
		Daily	Daily	Pk-Hr	Sp	lits	Sp	lits		Pk-Hr	Sp	lits	Pass-By	Spl	its		Pk-Hr	Sp	lits	Pass-By	Spl	its	
Land Use	Size	Trip Rates	Trips	Rate	_ In	Out .	In	Out	Total	Rate	ln	Out	Reduction	ln	Out	Total	Rate	ln	Out	Reduction	ln	Out	Tota
Approved Expansion (2006 Study)																							
Retail/Commercial/a/	552,615 s.f.	37.33	20,631	0.79	61%	39%	266	170	437	3.50	48%	52%	25%	696	755	1,451	4.76	52%	48%	25%	1,025	947	1,97
Proposed Expansion																							
Retail/Commercial/a/	487,300 s.f.	37.33	18,192	0.79	61%	39%	235	150	385	3.50	48%	52%	25%	614	665	1,279	4.76	0.52	48%	25%	904	835	1,73
Movie Theater/b/	10 scree	ens								13.64	45%	55%	0%	61	75	136	19.97	72%	28%	0%	144	56	200
Total Proposed Project Trips							235	150	385					676	740	1,416					1,048	891	1,939
Difference in Project Trips (Proposed	d - Approved fro	m 2006 Stud	dy)				-31	-20	-52					-21	-14	-35					23	-56	-33



Table 2 Intersection Level of Service Comparison

									Existing F	Plus Projec									Background	Plus Proje	ct		
				Existing		Approved Mall Expans			sion		New N	lall Expanssio	n	Background		Approved Mall Expansion				New Mall Expanssion			
Study Numbe	r Intersection	Peak Hour	Count Date	Avg. Delay <sup>1</sup>	LOS	Avg. Delay <sup>1</sup>	LOS	Incr. In Crit. Delay	Incr. In Crit. V/C	Avg. Delay <sup>1</sup>		Incr. In Crit. Delay	Incr. In Crit. V/C	Avg. Delay <sup>1</sup>	LOS	Avg. Delay <sup>1</sup>	LOS	Incr. In Crit. Delay	Incr. In Crit. V/C	Avg. Delay <sup>1</sup>		Incr. In Crit. Delay	Incr. In Crit. V/C
1	Stevens Creek Boulevard and Winchester Boulevard*	AM	02/27/13	35.5	D	36.5	D	1.6	0.025	36.4	D	1.3	0.021	36.8	D	37.8	D	1.5	0.025	37.7	D	1.3	0.021
'	Stevens Creek boulevard and Windhester Boulevard	PM	09/18/12	50.7	D	65.4	E	29.8	0.025	64.2	E	27.3	0.161	55.0	E	74.9	E	43.0	0.025	73.5	E	40.3	0.021
		SAT	04/01/06	59.6	E	95.9	F	75.1	0.236	93.7	F	70.7	0.225	59.6	E	95.9	F	75.1	0.236	93.7	F	70.7	0.225
2	Stevens Creek Boulevard and Santana Row	AM PM	02/13/13	15.1 29.7	B C	15.2 31.4	B C	0.3 1.5	0.018 0.075	15.2 31.3	B	0.3 1.4	0.016 0.071	14.9 29.2	B C	15.0 31.1	B C	0.3 1.7	0.018 0.075	15.0 31.0	B C	0.3 1.6	0.016 0.071
		SAT	04/01/06	34.7	c	36.9	D	3.8	0.120	36.7	D	3.6	0.112	34.7	C	36.9	D	3.8	0.120	36.7	D	3.6	0.112
3	Stevens Creek Boulevard and Redwood Avenue	AM	02/13/13	8.2	A	9.6	Α	1.7	0.028	9.4	Α	1.5	0.025	8.5	Α	9.8	Α	1.7	0.028	9.7	Α	1.5	0.025
		PM SAT	02/13/13 04/01/06	22.0 22.0	C	28.7 30.9	C	5.4 29.3	0.110 0.169	28.4 30.3	C	5.1 28.4	0.105 0.155	23.1 22.0	C	29.7 30.9	C	5.4 29.3	0.110 0.169	29.3 30.3	C C	5.1 28.4	0.105 0.155
4	Stevens Creek Boulevard and Monroe Street	AM	02/13/13	28.8	C	29.2	C	0.8	0.032	29.2	C	0.7	0.028	33.8	Č	34.1	C	0.8	0.032	34.1	C	0.7	0.028
		PM	02/13/13	38.6	D	45.2	D	19.5	0.153	44.8	D	17.9	0.141	58.3	E	83.5	F	34.9	0.112	82.0	F	33.2	0.108
5	Stevens Creek Boulevard and I-880 SB off-ramp*	SAT	04/01/06 n/a	36.7 22.2	D	<b>81.5</b> 22.2	F C	<b>113.2</b> 0.2	0.318 0.022	<b>78.5</b> 22.2	E C	<b>106.2</b> 0.2	<b>0.302</b> 0.019	36.7 22.3	D C	<b>81.5</b> 22.4	F C	113.2 0.3	0.318 0.022	<b>78.5</b> 22.4	E C	<b>106.2</b> 0.2	0.302 0.019
Ü	Stotelle Glock Educate and 1 000 GE on famp	PM	n/a	17.6	В	18.3	В	1.8	0.081	18.2	В	1.8	0.079	14.9	В	15.9	В	6.0	0.111	15.9	В	5.9	0.109
		SAT	04/01/06	22.0	С	23.3	С	1.3	0.082	23.3	С	1.3	0.082	22.0	С	23.3	C	1.3	0.082	23.3	С	1.3	0.082
6	Bascom Avenue and San Carlos Street	AM PM	02/14/13	41.9 51.3	D D	42.0 51.4	D D	0.2 0.4	0.004 0.013	42.0 51.4	D D	0.2 0.4	0.004 0.013	42.8 52.4	D D	43.0 52.6	D D	0.2 0.4	0.004 0.013	43.0 52.6	D D	0.2 0.4	0.004 0.013
		SAT	04/08/06	51.6	D	51.8	D	0.5	0.018	51.8	D	0.5	0.018	51.6	D	51.8	D	0.5	0.018	51.8	D	0.5	0.018
7	Hedding Street and Winchester Boulevard	AM	02/14/13	31.0	С	31.1	С	-0.1	0.012	31.1	С	0.0	0.010	31.5	С	31.7	С	0.0	0.012	31.7	С	0.0	0.010
		PM SAT	02/14/13 04/01/06	35.9 34.9	C	37.3 34.9	D	2.8	0.074 0.025	37.3 34.9	D C	2.7 0.0	0.072 0.023	36.6 34.9	D C	38.3 34.9	D C	3.2 0.0	0.074 0.025	38.2 34.9	D C	3.1 0.0	0.072 0.023
8	Forest Street and Winchester Boulevard	AM	02/14/13	15.4	В	17.0	В	2.1	0.025	16.8	В	1.9	0.022	19.5	В	20.2	C	1.3	0.025	20.2	С	1.1	0.022
		PM	02/14/13	21.5	С	25.1	С	5.5	0.157	24.9	С	5.2	0.149	26.8	С	30.5	С	6.4	0.157	30.3	С	6.0	0.149
9	Winchester Boulevard and Dorcich Street	SAT	04/01/06 09/10/10	17.7 14.8	B B	23.5 15.4	C B	7.7 0.9	0.216	23.2 15.3	C B	7.3 0.8	0.204	18.4 15.5	B B	23.6 15.8	C B	7.0 0.8	0.206 0.024	23.2 15.8	C B	7.3 0.7	0.204
-		PM	09/10/10	23.4	c	25.1	C	2.4	0.086	25.1	C	2.3	0.083	25.2	c	27.2	c	3.0	0.086	27.1	c	2.9	0.083
40	Winchester Boulevard and Olin Avenue	SAT	04/01/06 02/13/13	34.7 17.6	C B	39.0 17.3	D B	7.1 -0.3	0.115 0.007	38.7 17.3	D B	6.6 -0.2	0.110	34.7 17.8	В	39.0 17.5	D B	7.1 -0.2	0.115 0.007	38.7 17.5	D B	6.6 -0.2	0.110
10	Whichester Boulevard and Oil Avenue	PM	02/13/13	21.5	C	20.8	С	-0.3	0.007	20.8	С	-0.2	0.008	20.7	C	20.1	C	-0.2	0.007	20.2	C	-0.2	0.008
		SAT	04/01/06	20.2	Č	19.6	В	-0.5	0.028	19.7	В	-0.5	0.028	20.2	Č	19.6	В	-0.5	0.028	19.7	В	-0.5	0.028
11	Winchester Boulevard and Olsen Drive	AM PM	02/13/13 02/13/13	14.3 19.9	B B	14.0 19.2	B B	-0.1 -0.6	0.007	14.0 19.2	B B	-0.1	0.006 0.020	21.9 28.1	C	21.6 27.5	C	-0.3	0.007 0.020	21.6 27.6	C C	-0.3 -0.4	0.006
		SAT	04/01/06	24.8	C	24.1	C	-0.6	0.020 0.027	24.1	C	-0.6 -0.6	0.020	24.8	c	24.1	c	-0.4 -0.6	0.020	24.1	c	-0.4	0.020 0.027
12	Winchester Boulevard and I-280 WB on-ramp	AM	05/07/13	21.7	С	21.9	С	0.7	0.009	21.9	С	0.6	0.009	26.3	С	26.5	С	0.7	0.009	26.6	С	0.7	0.009
		PM SAT	02/13/13	30.0 20.6	C	30.7 22.1	C	1.3 2.0	0.042 0.055	30.7 22.1	C	1.3 2.0	0.041 0.053	34.6 20.6	C C	35.8 22.1	D C	2.2 2.0	0.041 0.055	35.8 22.1	D C	2.1 2.0	0.041 0.053
13	Winchester Boulevard and Moorpark Avenue	AM	02/13/13	37.8	D	38.1	D	0.3	0.035	38.1	D	0.3	0.033	38.8	D	39.1	D	0.4	0.035	39.1	D	0.3	0.033
		PM	02/13/13	38.3	D	38.7	D	0.8	0.040	38.7	D	0.8	0.038	38.9	D	39.4	D	0.9	0.040	39.3	D	0.8	0.038
14	I-280 EB off-ramp and Moorpark Avenue*	SAT	04/08/06 02/26/13	42.3 11.2	D B	43.1 11.3	D B	1.0 0.1	0.060	43.1 11.3	D B	1.0 0.1	0.059	42.3 11.6	D B	43.1 11.6	D B	1.0 0.1	0.060	43.1 11.6	D B	1.0 0.0	0.059
	1-280 EB OII-Iamp and Woorpark Avenue	PM	02/26/13	13.1	В	13.3	В	0.1	0.020	13.3	В	0.1	0.007	13.4	В	13.5	В	0.1	0.008	13.5	В	0.0	0.007
		SAT	04/08/06	11.8	В	12.0	В	0.2	0.029	12.0	В	0.2	0.029	11.8	В	12.0	В	0.2	0.029	12.0	В	0.2	0.029
15	Bascom Avenue and Naglee Avenue	AM PM	09/28/10 09/28/10	36.2 43.3	D D	36.5 44.0	D D	0.3 1.0	0.004 0.014	36.4 43.9	D D	0.2 0.9	0.003 0.013	37.0 44.2	D D	37.2 44.8	D D	0.3 1.0	0.004 0.014	37.2 44.8	D D	0.2	0.003 0.013
		SAT	04/01/06	43.3	D	41.4	D	0.0	0.014	43.9	D	0.9	0.013	44.2	D	41.4	D	0.0	0.014	44.6	D	0.9	0.013
16	Monroe Street and Forest Avenue	AM	02/14/13	17.4	В	17.6	В	0.1	0.003	17.6	В	0.1	0.002	17.8	В	18.1	В	0.2	0.011	18.1	В	0.2	0.010
		PM SAT	02/14/13 04/01/06	20.2 18.9	C B	20.8 21.1	C	0.6 4.3	0.030 0.104	20.8 21.2	C	0.6 4.2	0.029 0.100	21.1 18.9	C B	21.9 21.1	C	0.6 4.3	0.030 0.104	21.9 21.2	C C	0.6 4.2	0.029 0.100
17	San Tomas Expressway and Stevens Creek Boulevard*	AM	02/26/13	51.1	D	51.3	D	0.2	0.104	51.3	D	0.2	0.100	53.9	D	54.2	D	0.2	0.104	54.1	D	0.2	0.100
		PM	09/11/12	68.2	E	70.9	E	5.1	0.009	70.8	E	5.0	0.009	71.9	E	74.7	E	5.5	0.009	74.6	E	5.4	0.009
18	Saratoga Avenue and Stevens Creek Boulevard*	SAT	04/08/06	51.6 34.8	C	51.2 34.8	D	-0.4 0.0	0.013	51.3 34.8	C	-0.4 0.0	0.013	51.6 35.0	D D	51.2 35.1	D	-0.4 0.0	0.013	51.3 35.1	D D	-0.4 0.0	0.013
10	Saratoya Avenue and Stevens Creek DouieVard"	PM	02/26/13	34.8	D	34.8	D	-0.1	0.002	34.8	D	0.0	0.002	38.5	D	38.5	D	0.0	0.002	38.5	D	0.0	0.002
		SAT		40.5	D	40.6	D	0.0	0.012	40.6	D	0.0	0.012	40.5	D	40.6	D	0.0	0.012	40.6	D	0.0	0.012
	intersection weighted average control delay expressed in s dicates unacceptable levels of service	seconds	per vehicle.																				
	otes CMP intersection																						

